



# **Waste Isolation Pilot Plant (WIPP) Management Operations Procurement**

## **Pre-proposal Conference Request for Proposal (RFP) Summary**

July 12, 2011

# Conference Agenda

- Introduction/Welcome – Bill Hensley
- Overview of WIPP - Ed Ziemianski
- Purpose of the Pre-Proposal Conference
- Basic Rules – Bill Hensley
- Summary of the RFP – Bill Hensley/ Oba Vincent (Section C)
- Site Tour Logistics

# **Overview of WIPP**

**Ed Ziemianski**  
**Manager, Carlsbad Field Office**



# WIPP Current Organizational Structure



## U.S. Department of Energy Carlsbad Field Office

- Leads the Transuranic Waste Program
- Science Program



Washington TRU Solutions LLC

### Washington TRU Solutions

- Manages and operates the WIPP facility
- Manages transportation logistics and packages
- Manages waste retrieval, characterization and certification



### Sandia National Laboratories

- Scientific advisor for repository recertification



### Los Alamos National Laboratory

- Scientific advisor for waste characterization
- Mobile loading



### CBFO Technical Assistance Contractor

- Technical and Quality Assurance support for the Carlsbad Field Office



Specialty Transportation, Inc.



### CAST and Visionary Solutions

- Transportation carriers

# WIPP Workforce

- Diverse backgrounds
  - Engineering, chemistry, geology, physics, safety, mining, emergency management, environmental management, security, training, accounting, nursing and many more
- Broad experience from the nuclear industry
  - Other DOE sites
  - Nuclear power plants
  - U.S. military



# Economic Impact



Annual budget: \$220M

Total impact/economic development spending in New Mexico has exceeded \$590M

WIPP provides about 1,500 jobs

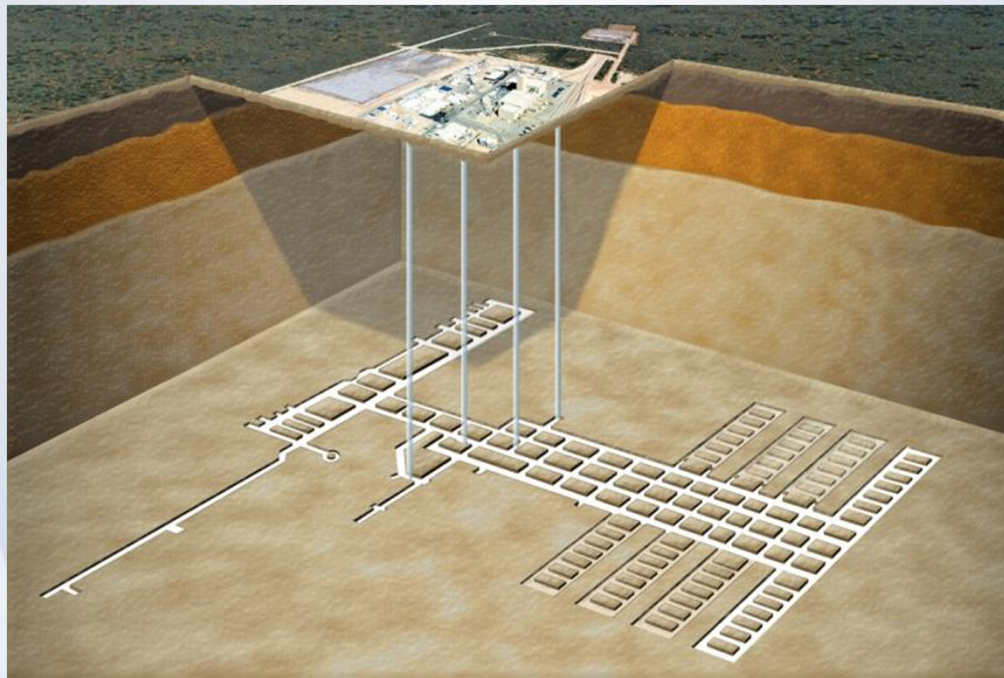
Managing and operating (M&O) contractor procurement of \$133M for FY11 (As of 6-1-11)

Note: The increase in out-of-state expenditures reflects the expenditure of ARRA funding in support of the accelerated characterization activities at the generator sites.

M&O Spending	FY08	FY09	FY10
In New Mexico	\$38.5M (60%)	\$44M (51%)	\$68M (47%)
In Southeast New Mexico	\$19M (29%)	\$23M (26%)	\$29 (20%)
Outside New Mexico	\$25.6M (40%)	\$29M (49%)	\$77M (53%)



# A national solution



WIPP is America's only deep geologic repository for the permanent disposal of defense transuranic (TRU) radioactive waste generated from research and production of nuclear weapons.

# TRU Waste



Includes clothing, tools, rags, debris, residues and other items contaminated with man-made radioactive elements that are heavier than uranium

Periodic Table of the Elements

1 H Hydrogen																	2 He Helium				
3 Li Lithium	4 Be Beryllium															5 B Boron	6 C Carbon	7 N Nitrogen	8 O Oxygen	9 F Fluorine	10 Ne Neon
11 Na Sodium	12 Mg Magnesium															13 Al Aluminum	14 Si Silicon	15 P Phosphorus	16 S Sulfur	17 Cl Chlorine	18 Ar Argon
19 K Potassium	20 Ca Calcium	21 Sc Scandium	22 Ti Titanium	23 V Vanadium	24 Cr Chromium	25 Mn Manganese	26 Fe Iron	27 Co Cobalt	28 Ni Nickel	29 Cu Copper	30 Zn Zinc	31 Ga Gallium	32 Ge Germanium	33 As Arsenic	34 Se Selenium	35 Br Bromine	36 Kr Krypton				
37 Rb Rubidium	38 Sr Strontium	39 Y Yttrium	40 Zr Zirconium	41 Nb Niobium	42 Mo Molybdenum	43 Tc Technetium	44 Ru Ruthenium	45 Rh Rhodium	46 Pd Palladium	47 Ag Silver	48 Cd Cadmium	49 In Indium	50 Sn Tin	51 Sb Antimony	52 Te Tellurium	53 I Iodine	54 Xe Xenon				
55 Cs Cesium	56 Ba Barium	57 La Lanthanum	58 Ce Cerium	59 Pr Praseodymium	60 Nd Neodymium	61 Pm Promethium	62 Sm Samarium	63 Eu Europium	64 Gd Gadolinium	65 Tb Terbium	66 Dy Dysprosium	67 Ho Holmium	68 Er Erbium	69 Tm Thulium	70 Yb Ytterbium	71 Lu Lutetium					
87 Fr Francium	88 Ra Radium	89 Ac Actinium	90 Th Thorium	91 Pa Protactinium	92 U Uranium	93 Np Neptunium	94 Pu Plutonium	95 Am Americium	96 Cm Curium	97 Bk Berkelium	98 Cf Californium	99 Es Einsteinium	100 Fm Fermium	101 Md Mendelevium	102 No Nobelium	103 Lr Lawrencium					

58 Ce Cerium	59 Pr Praseodymium	60 Nd Neodymium	61 Pm Promethium	62 Sm Samarium	63 Eu Europium	64 Gd Gadolinium	65 Tb Terbium	66 Dy Dysprosium	67 Ho Holmium	68 Er Erbium	69 Tm Thulium	70 Yb Ytterbium	71 Lu Lutetium
90 Th Thorium	91 Pa Protactinium	92 U Uranium	93 Np Neptunium	94 Pu Plutonium	95 Am Americium	96 Cm Curium	97 Bk Berkelium	98 Cf Californium	99 Es Einsteinium	100 Fm Fermium	101 Md Mendelevium	102 No Nobelium	103 Lr Lawrencium



# Types of TRU waste

## Contact-handled (CH)

- Primarily emits alpha radiation (less penetrating) and can be handled under controlled conditions without any shielding beyond the container itself
- About 96 percent of waste to be disposed at WIPP is CH



CH waste is disposed in columns on the disposal room floor. Disposal began in March 1999.

# Types of TRU waste *(continued)*

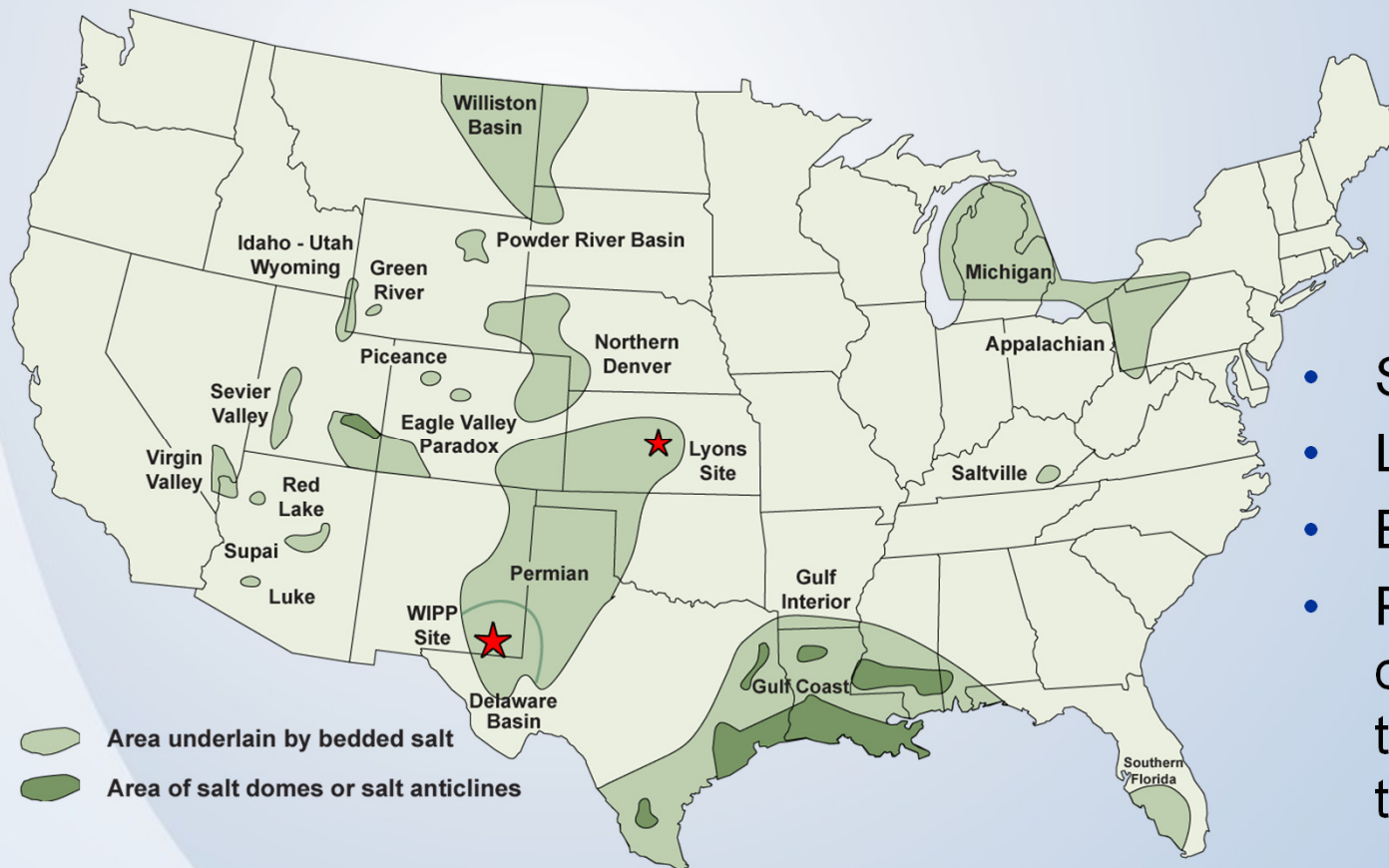
## Remote-handled (RH)

- Emits more penetrating radiation than CH-TRU
- Transported and handled in certified casks that provide additional shielding
- About four percent of waste to be disposed at WIPP is RH



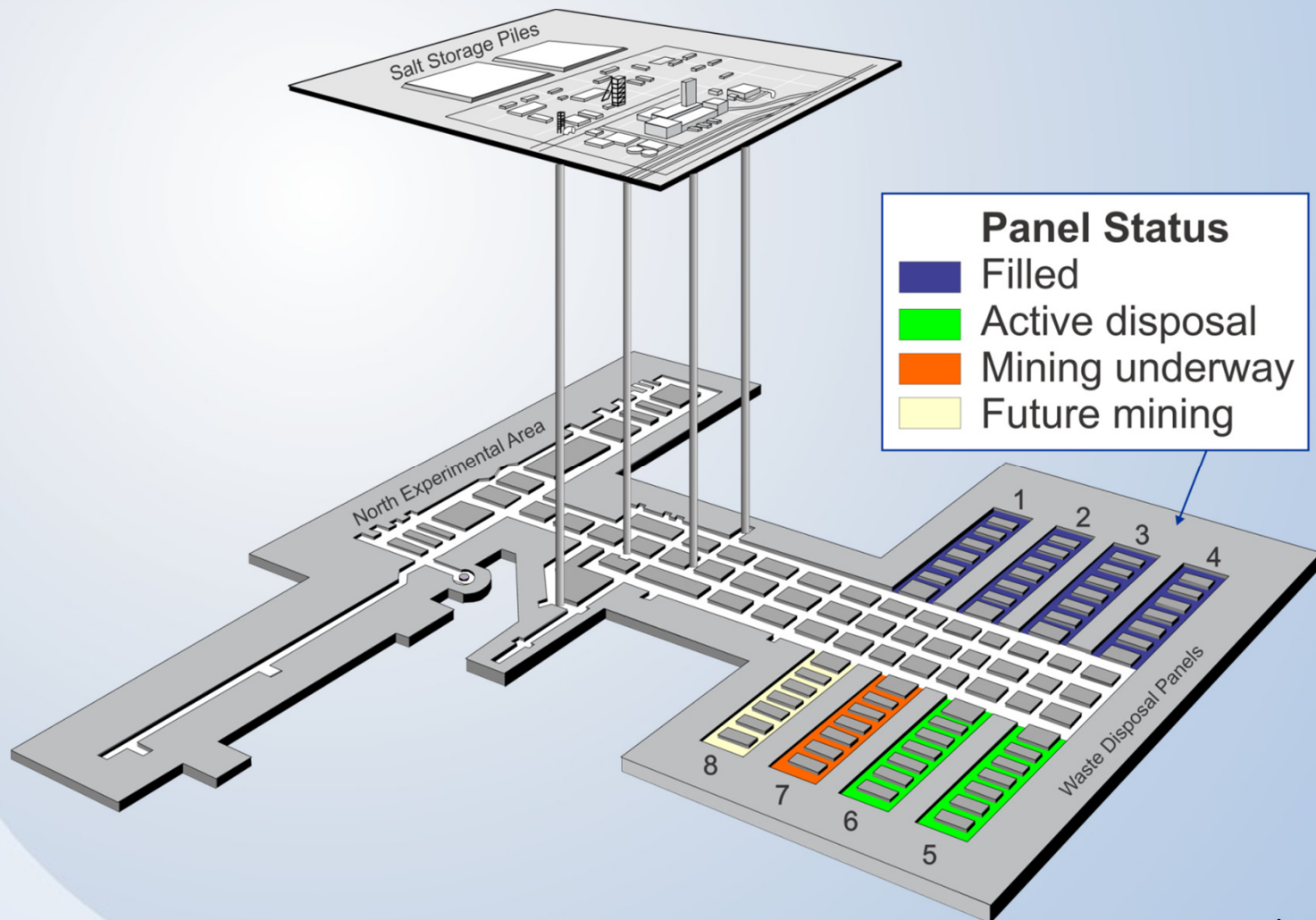
RH waste is disposed in pre-drilled boreholes in the walls of the disposal room and sealed with a concrete shield plug. Disposal began in January 2007.

# Salt is the reason for WIPP's location



- Stable geology
- Lack of water
- Easy to mine
- Plastic quality of salt allows it to close in on the waste

# The Underground



As of 5-20-11



# WIPP Transportation System

“...The [WIPP transportation] system is safer than that employed for any other hazardous material in the U.S....”

*National Academy of Sciences,  
WIPP Panel*





# Safest shipping containers on the road



Nuclear Regulatory Commission certified

- TRUPACT-II
- TRUPACT-III
- HalfPACT
- RH-72B
- CNS10-160B

Proven leak tight after rigorous testing

- 30-foot drop
- Puncture bar test
- 30 minutes in 1,475-degree jet fuel fire

# Shipments tracked by satellite



Fully automated, nation-wide tracking to within 500 feet

Five-minute updates

States and tribes have access to password-protected Web site

Drivers in constant communication with WIPP's Central Monitoring Room

# Emergency responders trained along pre-approved routes



Since 1988, more than 30,000 first responders have been trained

- Exercises
- State, tribe and hospital personnel training
- Outreach





# CURRENT STATUS

# Safety

Recertified at the Star level in DOE's Voluntary Protection Program (maintained since 1994)

More than 11 million safe loaded miles traveled to WIPP

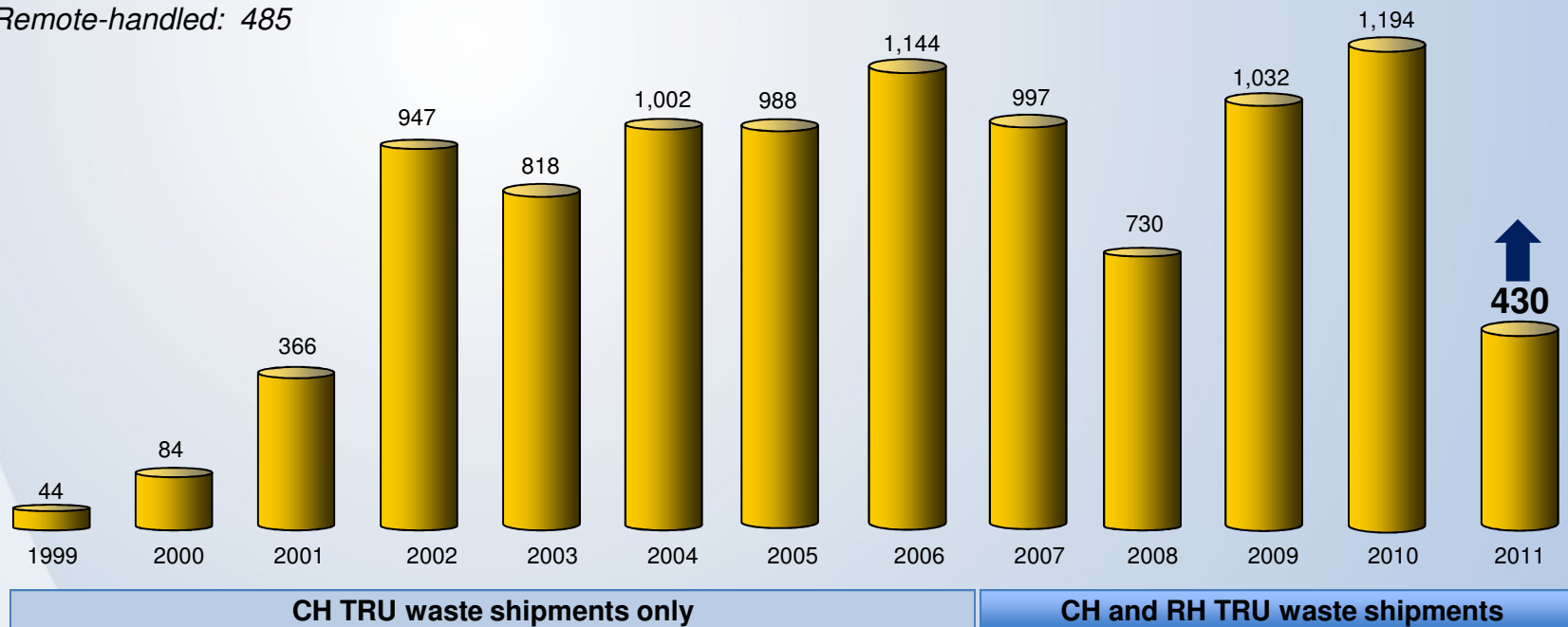




# Shipments

**Shipments received  
at WIPP to date:  
9,611**

*Contact-handled: 9,126  
Remote-handled: 485*



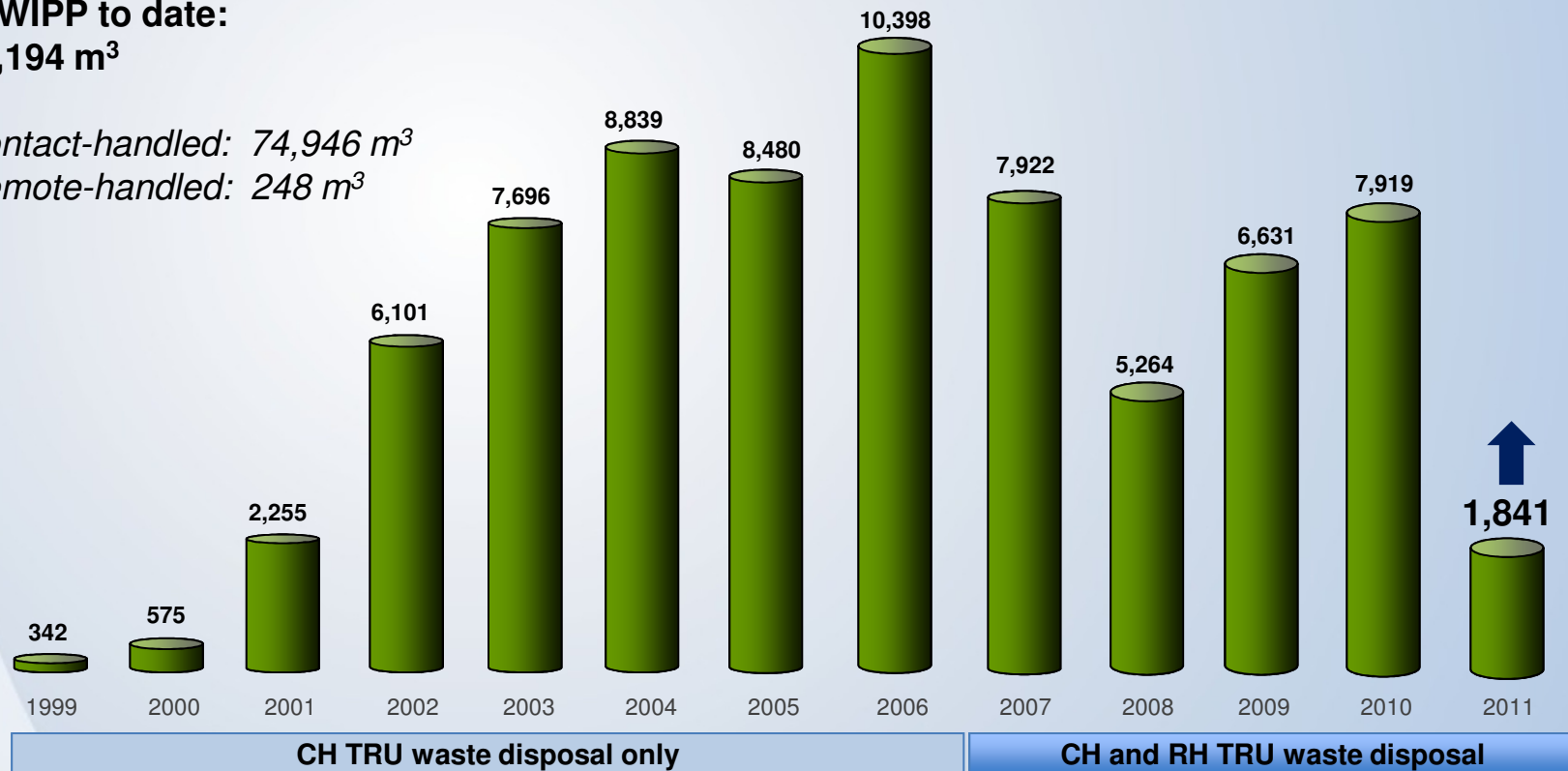
**Total Shipments Received by Calendar Year**  
*(Including intersite shipments)*

# Disposal

**Volume of waste disposed  
at WIPP to date:**  
**75,194 m<sup>3</sup>**

*Contact-handled: 74,946 m<sup>3</sup>*

*Remote-handled: 248 m<sup>3</sup>*



**Waste Disposed by Calendar Year**  
*(In cubic meters)*

# National Cleanup



Total number  
TRU waste  
sites cleaned  
up to date:

17

# Key Regulatory Success



## Environmental Protection Agency

- Recertification every five years until closure
- Documents compliance with long-term disposal regulations
- On Nov. 18, 2010, WIPP was recertified for the second time since opening



## Hazardous Waste Facility Permit

- Required for disposal of TRU waste mixed with hazardous materials
- Original 10-year permit issued by New Mexico Environment Department in October 1999
- Permit renewed on November 30, 2010

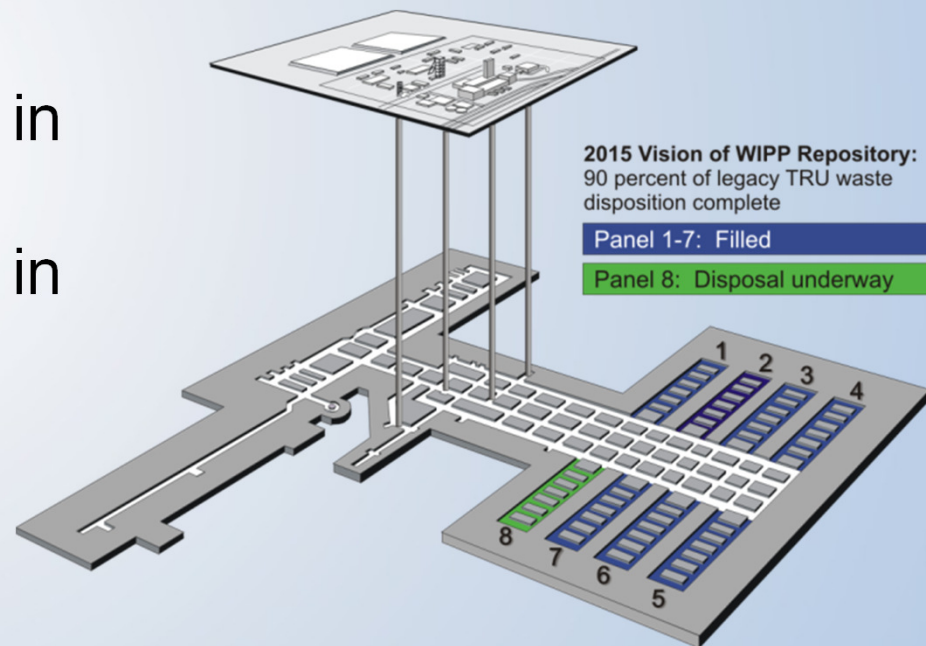


# DOE Goal: Complete disposition of 90% of legacy transuranic waste by 2015

## FY2010 progress

(Versus FY2008)

- 45 percent increase in CH shipments
- 18 percent increase in RH shipments
- Central Characterization Project certified a record number of waste containers (10,556)





# Looking Ahead

First use of the TRUPACT-III this year

FY11 and FY12 budget challenges

Four additional sites targeted for cleanup by end of September 2011

- Argonne National Laboratory
- Bettis Atomic Power Laboratory
- Lawrence Berkeley National Laboratory
- NRD

WIPP M&O Procurement Pre-Proposal Conference

# Pre-proposal Conference

**Bill Hensley**  
**Contracting Officer, DOE-EMCBC**



# Purpose of the Pre-Proposal Conference

- To provide information to potential Offerors regarding preparation of their proposal.
- Point out certain important aspects of the RFP.
- “Visualize” physical description included in the Performance Work Statement (PWS).
- Goal at the end of the Pre-Proposal Conference – to have a better understanding of the WIPP M&O RFP.

## WIPP M&O Procurement Pre-Proposal Conference

# Basic Rules

- No audio or video recording of Pre-Proposal Conference is permitted.
- All questions must be submitted in writing. Questions can be either dropped in the question box or submitted to the WIPP M&O Procurement mailbox at [wippmo@emcbc.doe.gov](mailto:wippmo@emcbc.doe.gov)
- All questions and answers, the Pre-Proposal Conference briefing slides, List of Attendees, and Tour Briefing will be posted to the WIPP M&O Procurement Web Page
- The terms and conditions of the RFP govern over any information presented today. Information presented here is at a summary level.
- Please put all cell phones, blackberries and other communication devices on quiet mode.
- All personnel must stay with their guides and obey all safety rules.



## Summary of RFP

### RFP posted in the FedConnect and the WIPP M&O Procurement Web Page

- FedConnect: <https://www.fedconnect.net>
- WIPP M&O Procurement Web Page address:  
<http://www.emcbc.doe.gov/wippmo>
- Reference documents are available on the WIPP M&O Procurement Web Page. Some information is Official Use Only (OUO). Offerors are required to complete a vendor registration form following the instruction on the Web Page prior to access.
- WIPP M&O Procurement e-mail address:  
wippmo@emcbc.doe.gov





## Summary of RFP (cont'd)

### WIPP M&O Procurement Web Page includes:

- **RFP and Amendments**
- **Reference Documents**
- **Questions and Responses**
- **Site Tour Information**
- **Pre-Proposal Conference Information**

## Summary of RFP (Cont'd)

### Request for Proposal Format

- **Sections A – J become the final contract.**
- **Section K - is incorporated by reference.**
- **Sections L and M - contain solicitation instructions and notices to Offerors and the basis of evaluation and award.**

## Summary of RFP (Cont'd)

### Section A – Solicitation, Offer and Award

- SF Form 33
- Offer
  - Offeror needs to complete Blocks 12-18.

**Note:** The proposal is not considered a valid offer unless the SF 33 is signed by a representative of the entity making the offer [e.g., if forming a new legal entity to perform the contract such as a LLC or joint venture, the individual signatures of the representative(s) or member company is needed].

## Summary of RFP (Cont'd)

### Section B – Supplies or Services and Prices/Costs

- **Cost-Plus-Award-Fee type contract.**
- **The Offeror will propose the cost for contract Transition Activities and Total Available Award Fee.**
- **No fee is payable for the contract transition activities.**

## Summary of RFP (Cont'd)

### Section B – Supplies or Services and Prices/Costs (con'td)

- **No Base fee for this contract.**
- **Proposed Fee: The Total Available Award Fee shall not exceed 8% of the Annual Fee Base in Section B.2-2(b).**
- **Fee is calculated from the Annual Fee Base dollars.**
- **Anticipated Funding is the total estimated cost and total available award fee including estimated funding to be received from other DOE sites.**
- **Annual Fee Base does not include funding received from other DOE sites.**





## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

**Contract Purpose:** To operate and maintain the Waste Isolation Pilot Plant (WIPP) and to implement the DOE's National Transuranic Waste program (NTP).

**EM Journey to Excellence:** One (1) Programmatic goal and Two (2) Management goals

- Complete disposition of 90 percent of the legacy transuranic waste by the end of fiscal year 2015 (Goal 3)
- Improve safety, security, and quality assurance towards a goal of zero accidents, incidents, and defects (Goal 5)
- Improve contract and project management with the objective of delivering results on time and within cost (Goal 6)

## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 3.1 Program Management

- Responsible for planning, integrating, managing and executing the programs, projects, operations and other activities as described in this PWS such that all functions are fully integrated;
- Fully responsible and accountable for the safe accomplishment of all work;
- Responsible for all operations at the WIPP and for characterization, integration, and disposal of designated waste for the National Transuranic Waste Program;
- Maintain the condition of the Government owned property and equipment during the term of the contract such that the intended functionality, including safety, health, and environmental compliance, for mission needs is met;
- Maintain the existing or equivalent project management system for the EM program;
- Responsible for all operations at the WIPP and for characterization, integration, and disposal of designated waste for the National Transuranic Waste Program.
- Partnering Relationship



## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 3.2 Environmental Protection and Regulatory Compliance

- Comply with all environmental laws, regulations and permits that apply to operations of the WIPP and the National TRU Waste Program;
- Operate Environmental program as an integral, but visible, part of how the organization conducts business;
- Hazardous Waste Facility Permit and Compliance Certification support;

## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 3.3 Safety and Health

- Develop and execute an Integrated Safety Management System Description (ISMSD) ;
- Ensure that ES&H performance be considered in the selection of subcontracts and incorporated into subcontracts as required.

#### 3.4 Quality Assurance

- Implement and maintain a Quality Assurance (QA) Program in accordance with the quality assurance provisions of 40 CFR 194;
- Maintain a program that is equivalent to the requirements of 10 CFR 71 Subpart H for NRC approved packaging.



## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 4.1 WIPP Disposal Operations

- Maintain an integrated infrastructure program that includes long-term infrastructure reinvestment planning;
- Balance short-term pressures to improve operations with long-term infrastructure reinvestment planning;
- Disposition of excess facilities, structures, and equipment;
- Land management, facility planning and dispositioning requirements as they become excess to the Department's needs
- Maintain a configuration management system



## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 4. 1 WIPP Disposal Operations (cont'd)

- Manage, operate, maintain, repair and replace waste handling facilities, systems, and equipment;
- Maintain, operate and continually evaluate underground facilities and systems for cost effective and efficient operations;
- Responsible for security at the WIPP and other CBFO locations

## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 4.2 National Transuranic Waste Program (NTP)

- responsible for integration of waste characterization, remediation, repackaging and retrieval at designated DOE characterization sites with DOE Contractors;
- assist generator sites in planning for the management of newly generated TRU waste;
- ensure that a certified waste characterization program is maintained at CBFO approved characterization sites in accordance with the WIPP requirements;
- arrange inter-site shipments to facilitate TRU waste disposal and consolidation;

## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 4. 2 National Transuranic Waste Program (NTP) – cont'd

- Maintain the laboratory capability to perform headspace gas and RCRA sample analysis;
- Maintain NRC-certified packaging and provide solutions to technical and regulatory issues related to NRC-certified packagings;
- Responsible for coordinating and ensuring an integrated approach with the transportation Contractor(s) for transportation of TRU waste
- Shall assist DOE in certification of the generator/storage sites compliance with transportation requirements and be responsible for the approval of shipments to WIPP;

## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 4. 2 National Transuranic Waste Program (NTP) – cont'd

- Monitor all movement of tractors performing work under this contract with the exception of movements for maintenance purposes;
- Conduct activities related to the opening and maintenance of shipping corridors and the provision of emergency response training along shipping corridors;
- Identify, analyze and resolve issues related to waste transportation and emergency management with states, tribes and local government officials

## Summary of RFP (Cont'd)

### Section C – Performance Work Statement (PWS)

#### 4.3 R&D for Program and Operational Efficiencies

- Propose research and development initiatives that have the objective of improving the operational efficiency of the WIPP and the National TRU Program;
- Assist with experiments and demonstrations in support of TRU waste disposal and other programs;
- Support DOE in the development and maintenance of an International Repository Science Program



## Summary of RFP (Cont'd)

### Section F – Deliveries or Performance

- **Period of Performance is from the date that the Contractor assumes full responsibility for the PWS through September 30, 2017 with an option to extend for a period of five (5) years;**
- **Transition period is 90 days.**

## Summary of RFP (Cont'd)

### Section H – Special Contract Requirements

- **No Third Party Beneficiaries (H.3)**
- **Workforce Transition (H.4)**
- **Employee Compensation: Pay and Benefits (H.5)**
- **Workforce Transition and Benefits Transition: Plans and Timeframes (H.6)**
- **Post-Contract Responsibilities for Pension and Other Benefit Plans (H.7)**

## Summary of RFP (Cont'd)

### Section H – Special Contract Requirements (cont'd)

- **Key Personnel (H.9)**
  - **Penalty for each removal, replacement, or diversion of key personnel within two years after effective date of the contract or within two years of being placed in the position: \$500,000 in fee if said Key Personnel is the Project Manager, and \$250,000 in fee for all other key personnel.**
  - **List of Key Personnel: 1) Project Manager; 2) Operations Manager; 3) Central Characterization Program Manager; and 4) Chief Financial Officer**

## Summary of RFP (Cont'd)

### Section H – Special Contract Requirements (cont'd)

- **Responsible Corporate Official and Corporate Board of Directors (H.15):**
  - Offeror provides a guarantee of performance from its parent(s) company (Fill-in: Section J Attachment)
  - Offeror provides the Responsible Corporate Official in Volume I proposal
  - Offeror provides the Responsible Corporate Board of Directors in Volume I proposal

## Summary of RFP (Cont'd)

### Section H – Special Contract Requirements (cont'd)

- **Contractor Community Commitment Plan (H.47)**
  - Offeror provides the Contractor Community Commitment Plan in Volume I proposal



## Summary of RFP (Cont'd)

### Section I – Contract Clauses

- **Incorporation of FAR and DEAR Clauses by reference and in full text**
  - **Section I, Clause I.51 “Hazardous Material Identification and Material Safety Data” is a mandatory fill-in.**
  - **Other Section I Clauses may require fill-in as well such as, I.122 “Rights to Proposal Data”**
  - **Please review carefully.**

WIPP M&O Procurement Pre-Proposal Conference

## Summary of RFP (Cont'd)

### Section J – List of Attachments



## Summary of RFP (Cont'd)

### Section K – Representations, Certifications, and Instructions

- **Offerors complete and submit all of the fill-in information provided in Section K. Failure to provide the requested information may make the offer unacceptable for award.**

## Summary of RFP (Cont'd)

### Section L – Instructions, Conditions, and Notices to Offerors

- **FAR 52.215-1 Instruction to Offerors – Competitive Acquisition (Provision L.2)**
- **Proposal Preparation Instructions – General (Provision L.16)**
  - **Three (3) Separate Volumes**
  - **Format, Fonts, Page and Size Limitations**

## Summary of RFP (Cont'd)

### Section L – Instructions, Conditions, and Notices to Offerors (Cont'd)

#### Volume I (Provision L.33)

- Fully executed SF 33 (Section A of the solicitation)
- Organizational Conflicts of Interests Disclosure
- Responsible Corporate Official and Corporate Board of Directors
- Performance Guarantee Agreement
- Small Business Subcontracting Plan
- Contractor Community Commitment Plan
- Equal Opportunity Compliance Information



## Summary of RFP (Cont'd)

### Section L – Instructions, Conditions, and Notices to Offerors (Cont'd)

#### Volume II (Provision L.34)

- **Technical Evaluation Criteria:**
  - Key Personnel and Organizational Structure (Written and Oral)
  - Past Performance
  - Management Approach
  - Relevant Experience

## Summary of RFP (Cont'd)

### Section L – Instructions, Conditions, and Notices to Offerors (Cont'd)

- **Volume III (Provision L.35)**
  - Transition Cost
  - Key Personnel Cost
  - Proposed Fee (amount not to exceed 8%)
  - Financial Capability

## **Summary of RFP (Cont'd)**

### **Section M – Evaluation Factors for Award**

**The Government anticipates the award of a single contract as a result of this solicitation to the responsible Offeror whose proposal is responsive to the solicitation and is determined to be the best value and most advantageous to the Government. (Provision M.5)**

## Summary of RFP (Cont'd)

### Section M – Evaluation Factors for Award (Con'td)

#### Overall Relative Importance of Evaluation Criteria (Provision M.2):

- Criterion #1: Key Personnel and Organizational Structure
- Criterion #2: Past Performance
- Criterion #3: Management Approach
- Criterion #4: Relevant Experience

**Key Personnel and Organizational Structure and Past Performance are equal in importance, and when combined are significantly more important than the combined Management Approach and Relevant Experience.**

**Management Approach and Relevant Experience criteria are equal in importance.**

## Summary of RFP (Cont'd)

- **Proposal Due:**
  - All Offers and Proposal Information, regardless of method of delivery, must be received on or before 08/17/2011 by 4:00 p.m. Local Time
  - The electronic submission through FedConnect to STRIPES constitutes the official offer and proposal. Access STRIPES via FedConnect,  
<http://www.compusearch.com/products/fedconnect/vendors>
  - Hard Copies To:  
U S. Department of Energy  
ATTN: Bill Hensley, Contracting Officer  
110 Boggs Lane, Suite 450  
Springdale, OH 45246





## Summary of RFP (Cont'd)

- **Questions:**  
Submit to [wippmo@emcbc.doe.gov](mailto:wippmo@emcbc.doe.gov)
- **WIPP M&O Procurement Website:**  
[www.emcbc.doe.gov/wippmo](http://www.emcbc.doe.gov/wippmo)

## SITE TOUR LOGISTICS

- **Safety Video**
- **Tour Registration**
- **Meet at the Skeen Whitlock building at 7:30 a.m. for bus transportation to the site. Individuals participating in the tour must be preregistered and dressed appropriately: sturdy shoes (no sandals, open toed shoes, or high heels), long pants.**
- **The tour will be split into two groups. One group will tour the above ground facilities while the second goes underground.**
- **The entire tour will last approximately 3 hours (not including transportation).**
- **Food will not be provided, but snacks may be brought on the bus but not taken on the tour.**
- **Security – A valid form of ID and keep all prohibited items on bus or in vehicles.**